

HOW

ENGLISH ENGINEERS ARE EMPLOYING SEWAGE GAS.
—Gas produced from sewage is being used to run engines at the sewage disposal works of Birmingham, England. Experiments made by John D. Watson, chief engineer, have proved successful, according to reports transmitted through consular channels. The sludge from the sewage, after it has undergone a certain amount of sedimentation, is fed into a septic gas producing tank, which is furnished with an air relief valve. The sludge is not aerated before it is used. The gas thus obtained contains about 60 per cent of methane or marsh gas, and is of high calorific value. It averages as much as 675 British thermal units per cubic foot, which compares very favorably with coal gas with 600 British thermal units per cubic foot.

Mr. Watson calculates that two tons of sludge will produce the gas required to give 150-horsepower hours, and that the total power available at that particular station could be raised if necessary, to 6,000-horsepower hours daily. The gas produced at the plant is employed in driving a 25-horsepower gas engine, which in turn works a centrifugal sludge pump. The exhaust from the engine is passed through pipes traversing the septic tank to supply heat and hasten the formation of gas. Samples of gas taken for analysis in cold weather had a higher calorific value than those taken in warmer weather, a fact which would seem to indicate that a warm climate is not essential for gas production.

FICTION WRITERS AS SEERS

How Oldtime Tellers of Tales Predicted Marvels Which Today Are Merely Commonplace.

A most amusing and voluminous book could be written around wise men's forecasts, beginning with those of Mercurius who, in the year 1249, described many future marvels. His prognostications caused skeptics even of the eighteenth century to smile in derision, yet, in the twentieth century, they are only simple and commonplace realities.

There could be cited Cyrano de Bergerac, the Marquis d'Argenson, Jules Verne, and a score more, without forgetting Emile Souvestre, who foresaw more than one of our conquests in his book, "The World in the Year Two Thousand."

Here is what can be read in one of the last novels of Champfleury, "Le Jardin du Roi" (The King's Garden), about forty years ago: "A day will come when science will project her light into the interior of the human body and closely see there just as we see the pebbles on the bottom of a brook."

Thus, a little less than twenty years before its discovery the author of "Raymond Fiddler" foresaw the X-ray. Truly, it must be conceded that fiction writers are often seers.

How Entire Town Was Moved.

Residents of Cedar Falls, a mountain town 40 miles from Puget sound, were terrorized recently when the entire place moved eleven feet toward Cedar lake. Should the slide continue it will mean the loss of all property and the abandonment of the town site.

It has been found that the clay formation upon which the foundations are erected lies in a sloping rock strata of extreme smoothness. There is really nothing but the weight of the clay subsoil to keep it balanced.

The winter's deep frost and a supposed earthquake shock may have been the cause of the earthquake. As every section of the town moved exactly the same direction and space the only damage was a few broken window lights.

How Nature Made Test.

A reinforced concrete arch of 80 feet span, forming part of a highway bridge constructed the year before last at Herkimer, N. Y., was subjected to an unexpected and severe test when the work of concreting had been completed only 12 hours. Owing to heavy rains during the deposition of the concrete, the water in the river swelled by the bridge rose about five feet, washing out or undermining the supports of the concrete, and carrying away part of the latter to such an extent as to leave the arch entirely without support, save that afforded by the molds in which the concrete had been deposited. Notwithstanding the sudden strain so imposed on the concrete, no injury was caused in any part of the arch.

How Fashion Slays Monkeys.

The dictates of fashion have exerted a strong demand for black and white Abyssinian monkey skins to be used for trimmings, particularly in Paris. The supply of skins is very limited and not more than fifteen to twenty thousand can be obtained in a year, says Consul Cross at Aden, Arabia, in report to the textile division of the Ministry of Commerce, without unduly high prices and extraordinary expenses. The price at Aden for a skin came through steadily, the cheaper at night and at 45 cents and the of silencing of 30 cents.

During an evening party can with be present

WHY

Discharge of Oil Waste, Into Water Should Be Stopped

The ever-increasing practice of discharging oil and tar wastes into streams and harbors, and its effect on fish and fish industries, is strikingly set forth in a pamphlet issued by the bureau of fisheries. The fatal contamination that results from poisonous substances rejected by gas plants and petroleum distilleries, or dumped from tankers and oil-burning ships, must result in huge losses of food products and money. First it should be distinctly understood that the presence of a minute quantity of poison is sufficient to kill. For example, the American sunfish, though highly resistant to poisons, will die in about an hour in water four to five parts per million of phenanthrene or naphthalene, or five parts per million of hydrogen sulphide, or seven parts per million of ammonia; and, of course, very much weaker solutions will kill if the fish are exposed to them for several days.

Aside from this direct toxic effect, such pollution repels the fish from approaching shore at the only time when they might be caught; sickens or kills bottom-dwelling species such as oysters; kills, by suffocation, floating eggs and delicate larvae; destroys minute plants and animals on which the larvae and adult fish subsist; affects aquatic life by diminishing the aeration of the water, and destroys spawning grounds. Even petroleum products that contain no poisonous substance soluble in water may, by agitation, form a deadly emulsion that will kill in five minutes. Tanned rinds also send their poisonous washings into the smaller streams. Remedial measures may be found in the commercial recovery of oils from drainage water, in the prevention of gashouse and refinery pollution with an increased use of wastes, and in regulations forbidding the dumping of oil from ships in harbors or near spawning grounds and feeding areas.—Scientific American.

ALL IN SCHEME OF NATURE

Why Human Beings and Lower Animals Have Lobes Is Explained by Scientists.

What we commonly call the ear—that is, the external part—is little more than a "telephone receiver," as it were, to the inner or true ear, with which all hearing is done. Of this "receiver" the lobes form an essential and necessary part. In Nature's wonderful way they are made to serve a very important purpose in keeping the drum of the ear properly stretched. Many waves of sound would be lost to the real ear were it not for the lobes.

The lobes of hunted animals, such as the hare on the stage, point backward, and of hunting animals, such as the dog, forward. Originally, it is believed, our human lobes were movable, but, as with the advance of civilization, man had to depend less and less upon his sense of hearing for protection against danger, the muscles connected with our lobes fell into disuse and resulted in the lobes becoming practically a fixed part of our hearing machine.

How Atmosphere Affects Stars.

Atmospheric changes have a very marked effect upon the twinkling of the stars. For example, it is found to increase as the temperature falls and as the barometer rises. An experience of nearly forty years, says a writer in *Conquest*, showed J. Montigny that with the quantity of moisture in the air the twinkling of the stars increased so markedly as to serve for a useful prognostic of rain. Cyclonic conditions generally are found to promote it, whilst it is extremely sensitive to magnetic disturbances. Humboldt on one occasion in the tropics found that the stars shone with a mild and planetary light; their scintillation was scarcely sensible at the horizon. This, it is apparent, was due to the great homogeneity of the atmosphere whereby the extremely fine pencil of light from the stars was not interfered with by unequally dense strata.

Why Granny Was Pleased.

That even a public survey may possess a humorous aspect is evidenced by a story told by a westerner.

It appears that the boundary line between portions of Illinois and Indiana was long in dispute and that at length the government authorized a survey, which was duly executed. The old homestead of Granny Garver, one of the early settlers, was found to lie in Illinois about eleven feet from the Indiana side. Granny expressed herself as much pleased, remarking that she had "heard tell Indiana was a powerful unhealthy state."

Why No Rule for Sleep.

A London doctor who has given the matter some extended investigation has come to the conclusion that there is no rule to be followed about hours of sleep, and there is no reason, he says, why a woman should have more sleep than a man.

One person gets as much benefit out of a habitual five hours' sound sleep as many another derives from eight or nine hours' lighter slumber, for quality of sleep is as important as quantity, a point that is often overlooked.

Why He Had to Move On.

"Look here, you," said the town sergeant of Plunkville, "you don't work and had better move on to some other burg."

"There ain't no law you can arrest me under."

"Never mind that. This is clean-up week."—Louisville Courier-Journal.

PRICES ADVANCE IN LIVING COSTS TO MARKED EXTENT

Reports Show Increase Affects the Entire Country

(By Associated Press)
Washington, Nov. 9.—The retail cost of food increased between September 15 and October 15 in all of 26 representative cities of which statistics are compiled, the department of labor announced today. The increases ranged from less than one half of one percent in Chicago and Milwaukee to four percent in Philadelphia, Cleveland, Newark, New Haven, Providence, Scranton and Washington reported increases of 3 percent. Bridgeport, Columbus, Denver, Jacksonville, Kansas City, Little Rock, Manchester, Portland, Maine, and Seattle, two percent; and Cincinnati, Detroit, Memphis, Norfolk, Omaha, Peoria, Richmond and St. Paul one percent.

Decreases ranging from two percent at Seattle to 11 percent in Columbus were recorded for the year which ended October 15.

Hardingto Honor Unknown Soldier Armistice Day

(By Associated Press)
Washington, Nov. 9.—President Harding's first official act on Armistice day will be to place a wreath upon the tomb of the "Unknown Soldier" at Arlington. Plans for the official observance of the day, which are expected to serve as a precedent for future years, provide for the president's departure from the white house shortly after 9 o'clock, accompanied by the secretary of war and the secretary of the navy, and to be met by a cavalry escort just before reaching Arlington.

TWO PALATKANS APPOINTED

The list of Florida delegates appointed by Governor Hardee to represent the state at the National Rivers and Harbors Congress to be held at Washington, D. C., includes the names of two prominent citizens of Palatka—E. W. Warren and J. H. Velterson. The session will open on Wednesday, December 6, and close with an elaborate program on the following day.

BOARD CONCLUDES TO ISSUE PASSES FOR SHORT TERM

Expired Passes Renewed, But No New Ones to Be Issued

The board of county commissioners authorizes the issuance of passes to those only whose licenses have recently expired, and issued only for a single month. The cost will be proportionate to the sums heretofore paid, \$1.25 for the one month, and the same conditions which were attached to the expired passes will be continued with the new issue.

No passes for the short-term service will be issued to new patrons at any price, and no passes will be issued for a longer period than one month. The commissioners are confident that before the month shall have expired the new schedules will be adopted and the new plans put in force; although at this time they give no publicity as to their intentions.

The decision was reached yesterday at an hour too late to make an announcement in *The News*. The great part of yesterday was given over to the hearing of complaints regarding the abolishment of the pass system, and listening to suggestions pertaining to any new plans which might be adopted regarding an equalization of the bridge tolls.

Contract Awarded For 23 Culverts and 8 Bridges

The contract for the bridges and culverts on the Bardin-Bostwick road in special road and bridge district No. 5, which was awarded to J. W. Conway on Monday, is of larger dimensions than at first stated. There are eight bridges varying in length from ten feet to eighty-one feet in length. Two of these, those of the greatest length, will have concrete abutments. Of the culverts there

HOW'S THIS?

HALL'S CATARRH MEDICINE will do what we claim for it—rid your system of Catarrh or Discharge caused by Catarrh.

HALL'S CATARRH MEDICINE consists of an Ointment which quickly Relieves the catarrhal inflammation, and the Internal Medicine, a Tonic, which acts through the Blood on the Mucous Surfaces, thus assisting to restore normal conditions.

Sold by druggists for over 44 Years. F. J. Cheney & Co., Toledo, O.



Pete Mardo and Paul Wentzell, clowns comique scheduled to appear here with Sparks Circus for two performances on Monday, November 13.

are to be twenty-three of sizes proportionate to the amount of water to be carried, and all to be made of the best material.

The contract price for the eight bridges is \$1,611.39, and for the twenty-three culverts \$1,591.25—making an aggregate contract price of \$3,202.64. The work is being commenced promptly.

High-class vaudeville show at the High School Carnival!

MAY McAVOY ANIMATED DOLL AT GRAND TOMORROW
The doll dance is not new, as patrons of the opera and the Russian ballet know, for it is an amusing fea-

ture of "The Tales of Hoffman," as well as many dance novelties, such as Pavlova's popular "Fairy Doll," "March of the Little Lead Soldiers," and other dance conceits.

But the doll dance, at once jerky, yet rhythmical, is not nearly so easy as it looks, asserts May McAvoy, Paramount star, who has mastered the difficult stunt.

In "The Top of New York," her latest picture, Miss McAvoy portrays the role of a poor New York girl who lives in a cheap tenement and clerks in a department store. Because of her small size, she is forced, during the Christmas season, to appear in the toy department as an animated doll to attract trade.

A most interesting toy shop was

FREE! FREE! FREE!

Did you ever hear of anybody giving away a handsome present as an appreciation of its patrons without a string tied to it? Well, if you haven't, note what we propose to do.

This handsome Intermezzo Sonora Phonograph, finished in a lovely cherry, with all of the Sonora equipment, will be given away Christmas to some patron of this firm—without a string tied to it. No gambling, no lottery—just a plain gift to those who make purchases from now until December 24 at 10 p. m., when the machine will be given away.



How to Qualify

Every person who makes a 25c purchase between now and the above date will be qualified to receive this handsome present. The increased amount of purchase will increase qualifications. Come in and let us explain it. If you pay anything on account it also applies to make you one of the eligibles.

Instrument Is Now On Display

Note this handsome instrument in our show window. It is the same one that will be given away, delivered to your home ready to play.

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